# Cytometer Performance Report

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|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 03/07/2016 11:02 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/21/2015 09:33 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016 (Expired)
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123445 | -2 | 2.93 | 123258 | 2.82 |
| Blue | F | SSC | 125000 | 122189 | -3 | 4.48 | 123150 | 4.13 |
| Blue | E | FITC | 17224 | 16627 | -4 | 3.38 | 929 | 9.07 |
| Blue | D | PE | 22462 | 21671 | -4 | 3.05 | 972 | 8.08 |
| Blue | B | PerCP-Cy5-5 | 63940 | 62581 | -3 | 3.58 | 1651 | 12.89 |
| Blue | A | PE-Cy7 | 72480 | 71069 | -2 | 4.48 | 933 | 24.03 |
| Red | C | APC | 63778 | 62788 | -2 | 2.56 | 3539 | 7.97 |
| Red | A | APC-Cy7 | 97254 | 96160 | -2 | 2.70 | 1906 | 7.75 |
| Violet | B | V450 | 10730 | 10372 | -4 | 3.58 | 639 | 8.11 |
| Violet | A | V500 | 42147 | 40399 | -5 | 3.15 | 2277 | 5.77 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 17903 | 5.27 | 579 | -41 | N/A | N/A | Pass |
| Blue | F | SSC | 60558 | 3.17 | 506 | -21 | N/A | N/A | Pass |
| Blue | E | FITC | 100 | 36.11 | 512 | -27 | 0.0268 | 201 | Pass |
| Blue | D | PE | 200 | 24.87 | 506 | -26 | 0.1999 | 195 | Pass |
| Blue | B | PerCP-Cy5-5 | 200 | 39.22 | 594 | -20 | 0.0121 | 38 | Pass |
| Blue | A | PE-Cy7 | 68 | 97.91 | 647 | -26 | 0.0162 | 15 | Pass |
| Red | C | APC | 331 | 25.30 | 576 | -8 | 0.0221 | 0 | Pass |
| Red | A | APC-Cy7 | 118 | 38.12 | 558 | -7 | 0.0051 | 944 | Pass |
| Violet | B | V450 | 66 | 39.78 | 446 | -28 | 0.0435 | 1272 | Pass |
| Violet | A | V500 | 147 | 22.12 | 475 | -28 | 0.0146 | 227 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 03/07/2016 11:02 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/21/2015 09:33 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.26 | -31.16 | 0.81 |
| Blue | 20.34 | 16.27 - 24.41 | 1.24 | 0.99 - 1.49 | 0.00 | 0.00 | 1.29 |
| Red | 19.64 (1) | 12.80 - 19.20 | N/A | N/A | 31.47 | 31.80 | 1.13 |

(1) Red Laser power is out of the specification range.

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 10801

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments